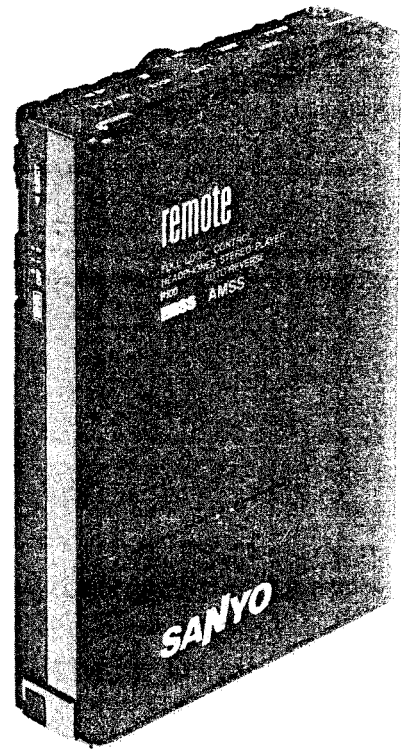
SANYO

Service Manual

Stereo Cassette Player JJ-P100 (EUROPE)



PRODUCT CODE No.
142 488 10 (Black)
142 488 11 (White)
142 488 12 (Silver)

SPECIFICATIONS

Power Source
- DC 1.5V
- Ni-cd battery NB-600
- or (UM-3, HP 7, AA Cell, Mignonzelle, R 6) x 1

Output Power ..... 5.0mW x 2 (Max.)
Current Consumption (at Vol. Min.)
- Playback mode 180mA
- Fast Forward/Rewind mode 330mA

Tape Speed ..... 1-7/8ips. ±3%
Fast Forward/Rewind Time ..... 200sec. (with C-60)
Torque
- Playback ..... 25 ~ 40g-cm
- Fast Forward/Rewind ..... More than 45g-cm

Wow & Flutter ..... 0.6%, RMS

Frequency Response (P/B Dolby OFF)
- Fe_2O_3 ..... 63Hz ~ 10,000Hz

EBSS/BRSS Switch (at 63Hz)
- 1 ..... +10dB ±4dB
- 2 ..... +20dB ±6dB

Signal to Noise Ratio (w/Fe_2O_3) ..... More than 43dB
Crosstalk (w/Fe_2O_3)
- Track to Track ..... More than 50dB

Channel Separation (w/Fe_2O_3) ..... More than 30dB
Hum & Noise (at Vol. Min.) ..... −73dBs
Terminal Impedance
- Headphones ..... 8 ~ 100Ω

Dimensions (Max.) ..... 71.1(W) x 104.6(H) x 20.4(D)mm
Weight (with batteries) 175g

Specifications subject to change without notice.

REFERENCE No. WM-22124

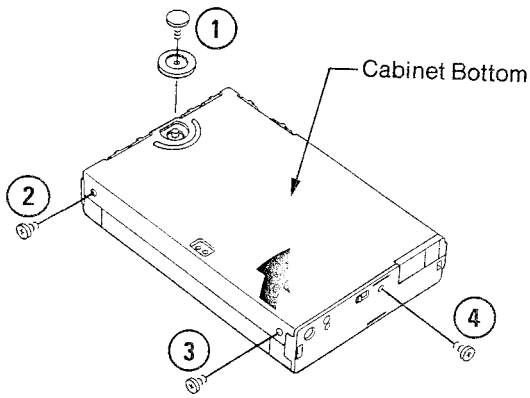
DISASSEMBLY INSTRUCTIONS

GENERAL REMARKS

- Before disassembling the unit, spread a soft rubber mat or a cloth on the workbench to avoid scratches and grease stains.
- Do not use a material which is likely to cause static electricity because transistors and ICs may be easily damaged by it.
- Reassemble the unit, noting the kinds of screws, the soldering and arrangement of the leads. Refer to "Circuit Diagram and Exploded Views" for correct assembly.
- Before disassembling the unit, take out the cassette tape and the batteries.
- Reassemble in reverse order.

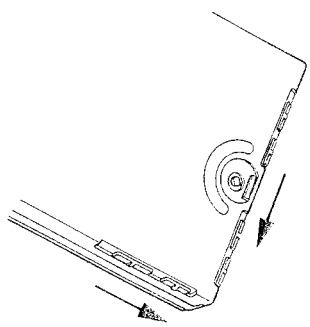
CABINET BOTTOM REMOVAL

- Detach the Volume Control by removing the fastening screw (1), then remove the three screws (2 ~ 4) and detach the Cabinet Bottom by lifting it in the direction of the arrow.



Attaching the Cabinet Bottom:

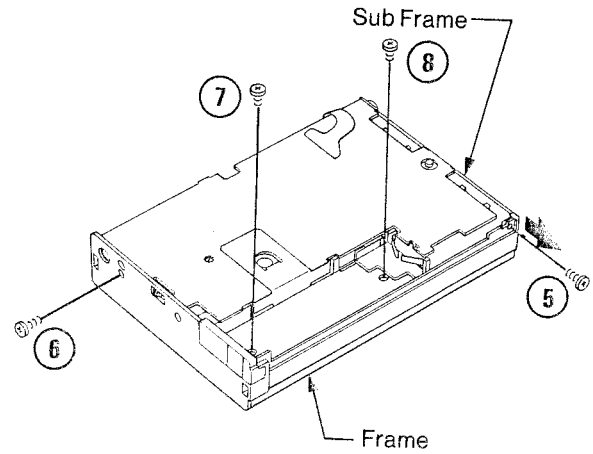
1. Change the switches on the P.C.Board and switch knobs on the Cabinet Bottom in the direction of the arrows. Tilt the unit as shown in the drawing and attach the Cabinet Bottom so that the switches on the P.C.Board and the switch knobs o the Cabinet Bottom.



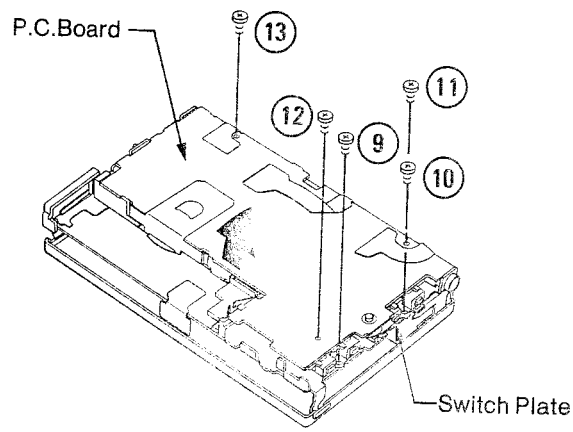
2. Confirm that all switches are operated by moving each Knob correctly after the Cabinet Bottom is assembled. Then tighten th screws.

P.C.BOARD REMOVAL

1. Remove the Cabinet Bottom, and unsolder the battery leads (black and red) and the solenoid leads (blue and orange) from the P.C.Board.
2. Detach the Sub Frame by removing the screws (5) and remove the three screws (6 ~ 8). Then detach the Frame by pulling it in the direction of the arrow.

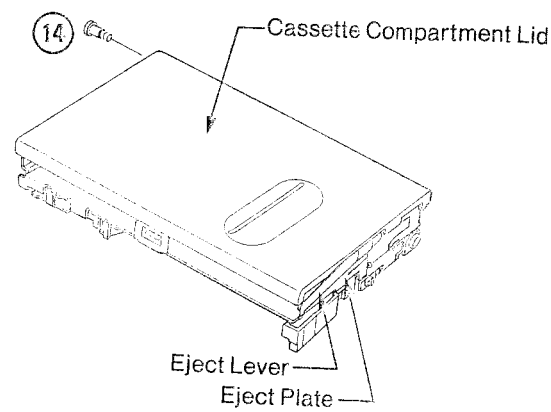


3. Remove the two screws (9 and 10) to detach the Switch Plate and remove the three screws (11 ~ 13). Detach the P.C.Board by lifting it in the direction of the arrow. When attaching the P.C.Board to the unit, the Solenoid leads should be passed through the hole of the P.C.Board.



CASSETTE LID REMOVAL

1. Remove the Cabinet Bottom and Frame, and remove the screw (14) to fastening the Cassette Compartment Lid.
2. While detaching the Cassette Lid from the unit, detach the Eject Lever from the Eject Plate.



ADJUSTMENT PROCEDURES

GENERAL REMARKS

- Before adjusting the mechanism of this unit, wipe the tape contacting surfaces clean as well as the contacting surfaces of the driving parts with a cotton swab or a soft cloth soaked in alcohol. Trouble may occur because of oil and grease stains.
- Handle the belt carefully the because grease easily attaches to it. Then check the used rubber parts. If the rubber has deteriorated or is scratched, replace the parts with new one.
- This model features the Auto Reverse Mechanism. Then the tape transport direction is distinguished as follows:
  - **FORWARD DIRECTION:**
    The tape is wound counter-clockwise.
  - **REVERSE DIRECTION:**
    The tape is wound clockwise.
- When performing the adjustment while playing back the test tape, set the tape transport to the **FORWARD DIRECTION**.

EQUIPMENT REQUIRED

- Frequency Counter
- Dualtrace Oscilloscope
- VTVM (2 sets)
- Dummy Load (16Ω)
- Test Tapes
  - 3kHz test tape (Example: TEAC MTT-111)
  - 10kHz test tape (Example: A·BEX TCC-153)
- Alignment Tool

NOTE:
Before the Adjustments, set the control and switch as follows:

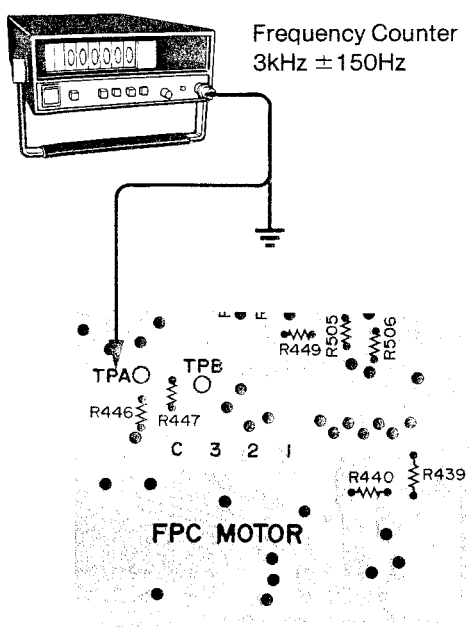
- Dolby NR Switch ..... OFF
- EBSS/BRSS Switch ..... OFF
- Volume Control ..... As desired
- Supply the regulated DC 1.5V power to the Ext. Power Jack for the adjustment.

■ ADJUSTMENT PROCEDURE

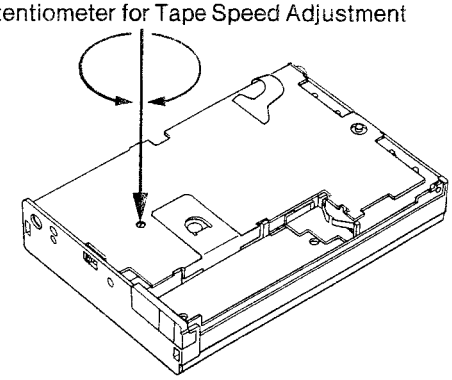
Adjustment Item	Connection	Dummy Load	Measuring Instrument	Test Tape	Adjustment	Measuring Value
Tape Speed	Headphones	16Ω	Frequency Counter	TEAC MTT-111	P501	3,000Hz ±3%
Head Azimuth			VTVM	A·BEX TCC-153	Azimuth Screw	Maximum
			Oscilloscope			Maximize two waveforms in phase.

LOGIC FREQUENCY ADJUSTMENT

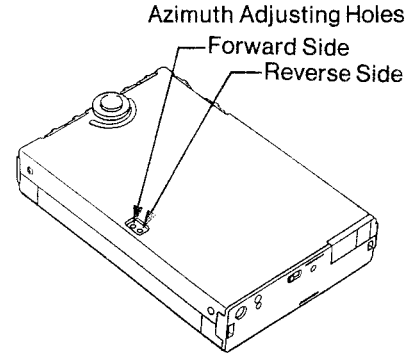
1. Connect the frequency counter to the Pin 2 of IC401 and set the unit in the playback mode.
2. Short or open the test point A (TPA) and B (TPB) together so that the frequency counter should read 3kHz ±150Hz.



Potentiometer for Tape Speed Adjustment



Azimuth Adjusting Holes



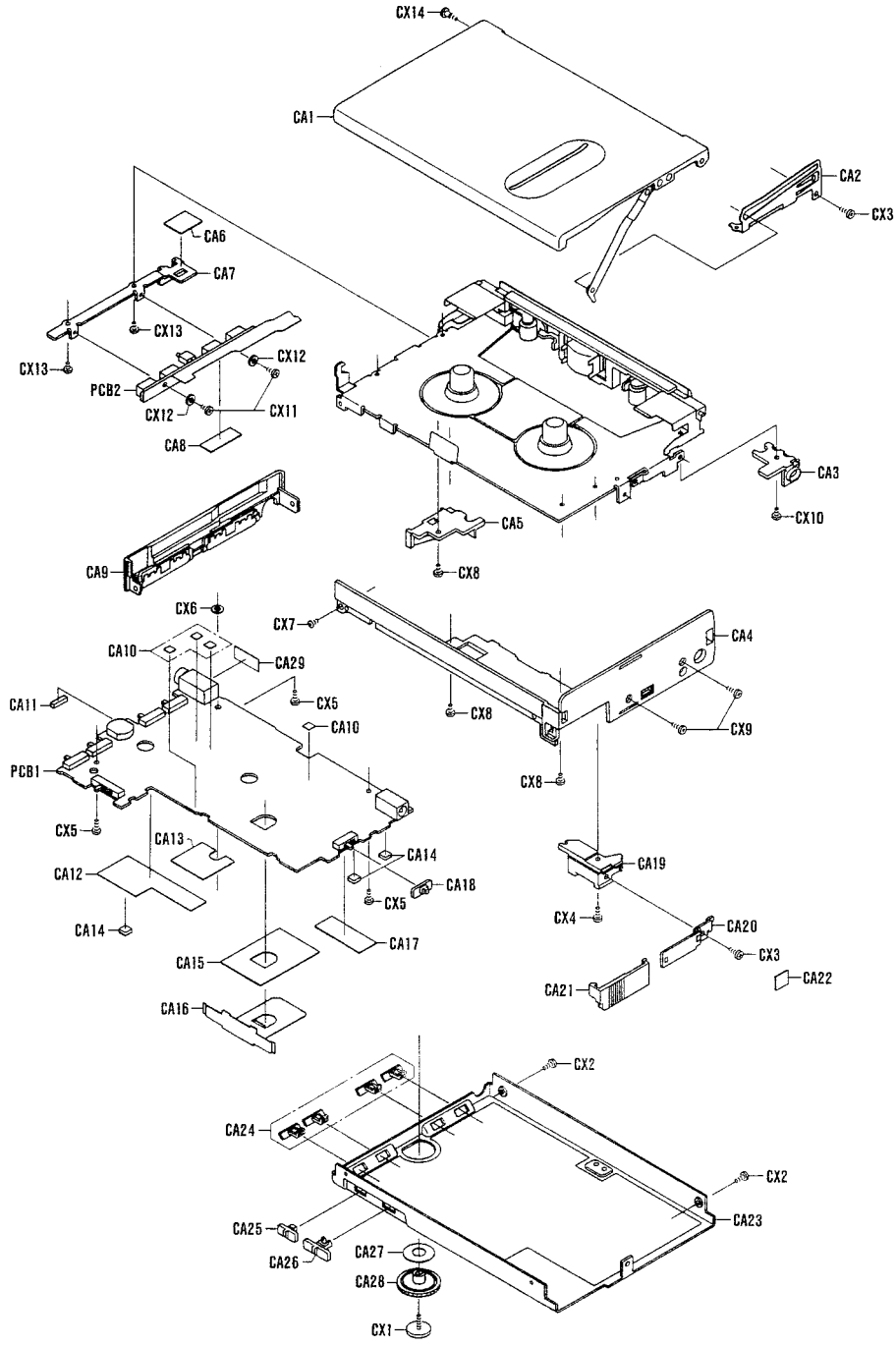
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141-6-1479-02502	Individual Carton	1
	141-6-1469-37800	Case Styrofoam	1
	141-6-2519-12490	Poly Cover (C-Case/Unit)	2
	141-6-2519-05011	Poly Cover 50x110 (Ni-cd Battery)	1
	141-6-3919-63600	Plain Pad	1
	141-6-3919-63700	Plain Pad	1
	141-6-4559-03300	Serial No. Sheet	3
	141-6-4559-04111	Label Color BK (Black)	1
	141-6-4559-04107	Label Color WH (White)	1
	141-6-4559-04108	Label Color SL (Silver)	1
	ACCESSORIES		
	4-1529-70860	Headphone Assy (Black/Silver)	1
	4-1529-70862	Headphone Assy (White)	1
	141-2-4469-56201	Ear Pad (Black/Silver)	2
	141-2-4469-56203	Ear Pad (White)	2
	4-1919-72134	AC Charger (1.5CV220N)	1
	4-2352-03730	Case Battery Socket (Black/Silver)	1
	4-2352-03731	Case Battery Socket (White)	1
	4-6629-70270	Ni-cd Battery (NB600)	1
	141-0-1769-01900	Head Band Assy	1
	141-2-1819-21800	Carrying Case	1
	141-6-4729-37901	Label Case Battery	1
	141-6-4729-37941	Label Caution Batt	1
	141-6-4729-37967	Label Caution	1
	142-6-4119-33865	Sheet Inst	1
	142-6-4119-33968	Instruction Book	1
	CABINET		
	141-2-2899-13900	Adhesive Sheet (FPC Head S)	1
	141-2-2899-15400	Adhesive Sheet (FPC Motor)	1
	141-2-2899-23300	Adhesive Sheet (FPC Head L)	1
CA 1	141-0-1249-51705	Lid Cassette Assy (Black)	1
CA 1	141-0-1249-51706	Lid Cassette Assy (White)	1
CA 1	141-0-1249-51707	Lid Cassette Assy (Silver)	1
CA 2	141-2-2529-12700	Plate Eject	1
CA 3	141-2-2149-33000	Holder Socket	1
CA 4	141-2-1149-60300	Frame (Black)	1
CA 4	141-2-1149-60300	Frame (White/Silver)	1
CA 5	141-0-2149-05300	Brkt Terminal Assy	1
CA 6	141-2-4359-37400	Insulator	1
CA 7	141-2-2149-35000	Plate SW	1
CA 8	141-2-4469-27600	Cushion	1
CA 9	141-0-1149-21100	Sub Frame Assy	1
CA10	141-2-4359-37800	Sheet	4
CA11	141-2-4459-48500	Cushion	1
CA12	141-2-2899-77200	Adhesive Sheet	1
CA13	141-2-4359-52800	Insulator	1
CA14	141-2-4459-26900	Cushion	3
CA15	141-2-4359-49200	Insulator	1
CA16	141-2-3229-66800	Shield Motor	1
CA17	141-2-2899-16800	Adhesive Sheet	1
CA18	141-2-1649-57300	Knob Remote	1
CA19	141-0-2149-05400	Bracket Hinge Assy	1
CA20	141-2-2519-07100	Hinge	1
CA21	141-2-1339-43000	Cap Battery (Black)	1
CA21	141-2-1339-43001	Cap Battery (White)	1
CA21	141-2-1339-43002	Cap Battery (Silver)	1
CA22	141-2-4469-63300	Sheet	1
CA23	141-0-1129-37406	Cabinet Bottom Assy (Black)	1
CA23	141-0-1129-37407	Cabinet Bottom Assy (White)	1
CA23	141-0-1129-37408	Cabinet Bottom Assy (Silver)	1
CA24	141-2-1669-08600	Knob SW (Black)	4
CA24	141-2-1669-08601	Knob SW (White)	4
CA24	141-2-1669-08602	Knob SW (Silver)	4
CA25	141-2-1669-08400	Knob Eject (Black)	1
CA25	141-2-1669-08401	Knob Eject (White)	1
CA25	141-2-1669-08402	Knob Eject (Silver)	1
CA26	141-2-1669-08500	Knob LOW Boost (Black)	1
CA26	141-2-1669-08501	Knob LOW Boost (White)	1
CA26	141-2-1669-08502	Knob LOW Boost (Silver)	1
CA27	141-2-4359-52300	Insulator	1
CA28	141-2-1639-67500	Knob Volume (Black)	1
CA28	141-2-1639-67501	Knob Volume (White/Silver)	1
CA29	141-2-4359-49800	Sheet	1
PCB1	141-0-1939-28020	Amplifier P.C.B. Assy	1
PCB2	141-0-1939-28030	Switch F.P.C. Assy	1
CX 1	412 024 3804	SPECIAL SCREW (Black)	1
CX 1	412 025 8907	SPECIAL SCREW (White/Silver)	1
CX 2	141-2-4219-26700	Screw +PMS M1.4X2 (Black)	2
CX 2	141-2-4219-26701	Screw +PMS M1.4X2 (White/Silver)	2
CX 3	141-2-4219-28401	Screw +PMS M1.4X2.5	2
CX 4	141-2-4219-26700	Screw +PMS M1.4X2	1
CX 5	141-2-4219-26701	Screw +PMS M1.4X2	3
CX 6	141-2-4539-19801	Washer, M2.1x5.0x0.13	1
CX 7	141-2-4219-27400	PI Screw, Flat Hd., +M1.4x2.5	1
CX 8	141-2-4219-24101	Screw M1.4X1.4	3
CX 9	141-2-4219-28401	Screw +PMS M1.4X2.5 (Black)	2
CX 9	141-2-4219-28400	Screw +PMS M1.4X2.5 (White/Silver)	2
CX10	412 020 2801	SPECIAL SCREW	1
CX11	141-2-4219-38200	Screw PMS-1 M1.4X1.6	2
CX12	141-2-4539-20300	Washer Capstan	2
CX13	412 024 6409	SPECIAL SCREW (Black)	2
CX13	412 025 9003	SPECIAL SCREW (White/Silver)	2
CX14	412 024 6201	SPECIAL SCREW	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

CABINET EXPLODED VIEW

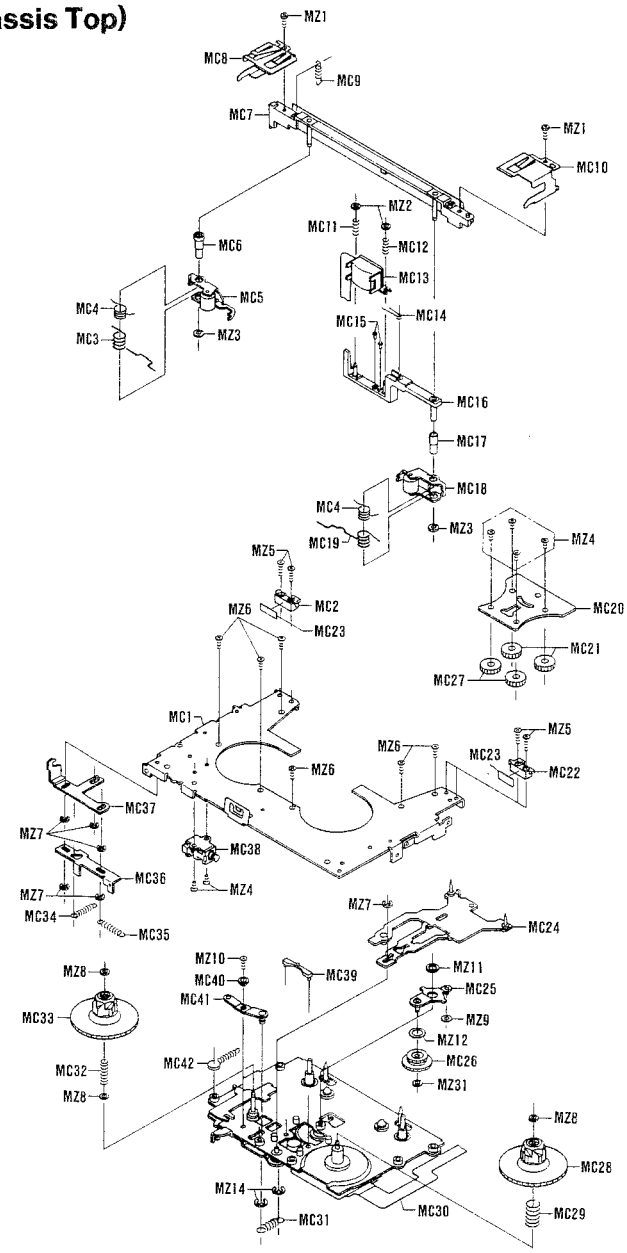


MECHANISM PARTS LIST

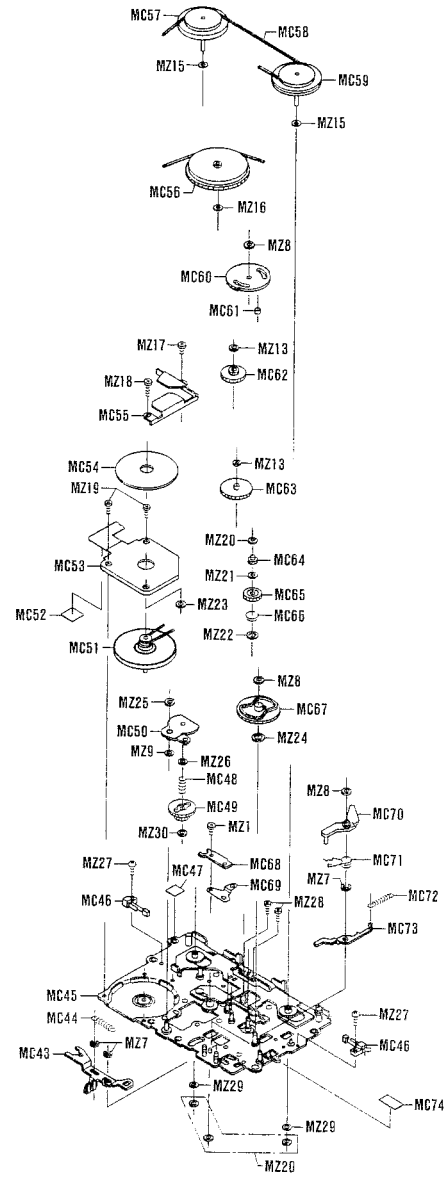
Ref. No.	Part No.	Description	Q'ty
	CASSETTE MECHANISM		
MC 1	141-0-3129-02900	Chassis Frame Assy	1
MC 2	141-2-2529-11300	Fix Holder R	1
MC 3	141-2-8529-42500	SPG Pinch FWD	1
MC 4	141-2-8529-42600	Spring Arm Pinch	2
MC 5	141-0-5459-03600	Arm Pinch FWD Assy	1
MC 6	141-2-5469-04500	Roller Pinch FWD	1
MC 7	141-0-3519-28000	Holder Head Assy (Black)	1
MC 7	141-0-3519-28001	Holder Head Assy (White/Silver)	1
MC 8	141-2-8539-62401	Holder R	1
MC 9	141-2-8549-41600	Spring Holder Head	1
MC10	141-2-8539-62500	Holder L	1
MC11	141-2-8559-18900	Spring	1
MC12	141-2-8559-19100	Spring	1
MC13	4-2429-73350	Play Head Assy [HD1]	1
	4-2262-35080	FPC Head	1
	4-2429-73360	Play Head	1
MC14	141-2-8529-42400	Spring Arm Base	1
MC15	141-2-7539-91100	Pin Azimuth	2
MC16	141-0-7439-21300	Arm Base Assy	1

MECHANISM EXPLODED VIEW

(Chassis Top)



(Chassis Bottom)



MECHANISM PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
MC17	141-2-5469-04600	Roller Pinch REV	1
MC18	141-0-5459-03700	Arm Pinch REV Assy	1
MC19	141-2-8529-42700	SPG Pinch REV	1
MC20	141-2-3169-36200	Panel Chassis	1
MC21	141-2-5519-76500	Gear Idle	2
MC22	141-2-2529-11200	Fix Holder L	1
MC23	141-2-4359-53700	Sheet	2
MC24	141-0-7319-37701	Base Slide Assy	1
MC25	141-0-5559-08400	Arm Change Assy	1
MC26	141-0-5519-15001	Gear Friction Assy	1
MC27	141-2-5519-76500	Gear Idle	2
MC28	141-2-5519-75600	Gear Reel REV	1
MC29	141-2-8559-09700	Spring Pressure	1
MC30	4-2262-35090	FPC Motor	1
MC31	141-2-8549-43600	Spring	1

Ref. No.	Part No.	Description	Q'ty
MC32	141-2-8559-21400	Spring Supply	1
MC33	141-0-5519-15900	Gear Reel FWD Assy	1
MC34	141-2-8549-31200	Spring Arm Fastwind	1
MC35	141-2-8519-49300	SPG Plate Stop	1
MC36	141-2-7319-96500	Plate Lock Eject	1
MC37	141-0-7319-40400	Plate Lock Lid Assy	1
MC38	4-2649-70960	Plunger [SL1]	1
MC39	141-2-3519-85801	Plate Trig Pinch	1
MC40	141-2-3529-55900	Spacer Arm Play	1
MC41	141-0-7439-21900	Arm Assist Assy	1
MC42	141-2-8549-43700	Spring	1
MC43	141-2-7319-89900	Lever Reset	1
MC44	141-2-8549-28300	Spring	1
MC45	141-0-3119-28900	Chassis Assy	1
MC46	4-2319-77690	Leaf Switch (S407/Reverse)	1

MECHANISM PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
MC46	4-2319-77690	Leaf Switch (S409/Side Base)	1
MC47	141-2-4419-22400	Cushion	1
MC48	141-2-8559-24100	Spring	1
MC49	141-2-5519-77200	Gear Fast	1
MC50	141-0-5559-08601	Arm Gear Fast Assy	1
MC51	141-0-3799-01700	Rotor Comple	1
MC52	141-2-4359-37400	Insulator	1
MC53	4-2649-70910	Coil Assy [M1]	1
MC54	141-2-3799-04600	Plate Back-up	1
MC55	141-2-3169-35200	Shield Motor	1
MC56	141-0-6619-00600	Pulley Assy	1
MC57	141-2-5219-24500	Flywheel REV	1
MC58	141-2-5649-31000	Belt Drive	1
MC59	141-2-5219-24400	Flywheel FWD	1
MC60	141-2-5519-76200	Gear Reverse	1
MC61	141-2-8259-15100	Roller REV	1
MC62	141-2-5519-76300	Gear Idle Reverse	1
MC63	141-2-5519-77300	Gear Idle Assist	1
MC64	141-2-5519-78400	Gear ACT Assist	1
MC65	141-2-5519-78500	Gear Assist Friction	1
MC66	141-2-8559-21200	SPG Assist Friction	1
MC67	141-2-5519-77500	Gear Assist Play	1
MC68	141-2-3169-36400	Plate	1
MC69	141-2-8539-63400	Spring Click	1
MC70	141-2-7439-57500	Arm Trigger	1
MC71	141-2-8529-44600	Spring Arm Trig	1
MC72	141-2-8549-48800	Spring	1
MC73	141-2-7439-58600	Arm Lock Play	1
MC74	141-2-4359-24700	Insulator	1
MZ 1	411 019 3201	SCR PAN PCS 1.4X1.6	3
MZ 2	412 020 3006	SPECIAL WASHER	2
MZ 3	412 020 4904	SPECIAL WASHER	2
MZ 4	411 016 9909	SCR FLT PCS 1.4X1.6	6
MZ 5	412 025 7801	SCR FLT PCS 1.4X3.5	4
MZ 6	411 099 7502	SCR FLT PCS 1.4X2.5	6
MZ 7	411 015 7401	RING E 1.2	9
MZ 8	141-2-4539-17500	Washer, M1.25x3.0x0.25	6
MZ 9	141-2-4539-18100	Washer, M1.6x3.0x0.13	3
MZ10	412 023 0408	SCR FLT PCS 1.4X2.5	1
MZ11	412 019 9101	SPECIAL WASHER	1
MZ12	412 022 4506	SPECIAL WASHER	1
MZ13	141-2-4539-26200	Washer, M0.95x2.0x0.25	3
MZ14	411 015 8309	RING E 1.5	2
MZ15	141-2-4539-33100	Washer, M1.2x3.0x0.15	2
MZ16	412 023 5908	SPECIAL WASHER	1
MZ17	411 019 3003	SCR PAN PCS 1.4X1.4	1
MZ18	411 019 4505	SCR PAN PCS 1.4X3	1
MZ19	411 017 7805	SCR PAN PCS 1.4X2.5	2
MZ20	412 022 8405	SPECIAL WASHER	4
MZ21	412 024 9608	SPECIAL WASHER	1
MZ22	141-2-4539-08900	Washer, M2.0x4.0x0.13	1
MZ23	141-2-4539-35800	Washer, M1.7x4.0x0.13	1
MZ24	412 024 9509	SPECIAL WASHER	1
MZ25	141-2-4539-44000	Washer, M,1.25x3.0x0.13	1
MZ26	141-2-4539-31700	Washer, M2.0x4.0x0.2	1
MZ27	412 023 0705	SCR PAN PCS 1.4X2.5	2
MZ28	412 025 6903	SCR PAN PCS 1.4X2	2
MZ29	412 023 2709	SPECIAL WASHER	2
MZ30	141-2-4539-39200	Washer, M1.25x2.5x0.3	1
MZ31	141-2-4539-18301	Washer, M0.85x2.0x0.13	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	AMPLIFIER P.C.B. ASSY		
PCB1	141-0-1939-28020	Amplifier P.C.B. Assy	1
	141-2-1329-22600	Holder Sensor	1
	141-2-2899-51301	Adhesive Sheet	2
J301	4-2352-03131	Jack 3P Black (Headphones)	1
J401	4-2352-03140	Extx Power Jack	1
S301	4-2319-76970	Slide Switch (Tape Select)	1
S302	4-2319-76970	Slide Switch (Dolby NR)	1
S303	4-2312-07000	Slide Switch (EBSS)	1
S401	4-2319-76970	Slide Switch (Hold)	1
S406	4-2319-76970	Slide Switch (Reverse Mode)	1
S408	4-2319-76970	Slide Switch (Remote Control)	1
S410	4-2312-06510	Leaf Switch (Dry Cell)	1
S411	4-2312-06510	Leaf Switch (Lid)	1
L401	4-2539-72313	Chip Coil 10μH K	1
L402	4-2589-73700	OSC Trans D/D	1
P501	4-2229-77411	Potentiometer (B-3k Ω)	1
VR301	4-2229-77690	Volume Control (C-20k Ωx2)	1
HS501	407 100 2901	SENSOR SHS330-50	1
D401	407 099 1503	DIODE MA714-TX	1
D402	407 099 1503	DIODE MA714-TX	1
D404	407 008 5400	DIODE MA151WK-TW	1
D405	407 099 1602	DIODE MA159-TX	1
D406	407 089 1605	ZD 02CZ3.3X(TE85R)	1
D407	407 008 5400	DIODE MA151WK-TW	1
D409	407 099 1602	DIODE MA159-TX	1
IC301	409 136 9305	IC TA7795F(TP1)	1
IC302	409 119 1609	IC TA7793F(TP1)	1
IC303	409 125 6100	IC LA3550M-TP-T1	1
IC304	409 116 1503	IC LA4538M-TP-T1	1
IC401	409 136 9404	IC TC9311F-009(TP1)	1
IC501	409 139 5601	IC LB1672M-TP-T1	1
Q301	405 008 7707	TR 2SB815-B7-TA	1
Q401	405 035 1105	TR FMW1	1
Q402	405 064 1800	TR FMG5-T99	1
Q403	405 034 9508	TR DTC114-YK	1
Q404	405 079 2809	TR IMX1-T109	1
Q405	405 060 7608	TR FMG4-T99	1
Q406	405 076 5902	TR FMA5-T99	1
Q407	405 064 1800	TR FMG5-T99	1
Q408	405 021 2406	TR 2SD1048-X7-TA	1
Q409	405 034 9508	TR DTC114-YK	1
Q410	405 008 7707	TR 2SB815-B7-TA	1
Q411	405 034 9508	TR DTC114-YK	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
Q412	405 064 1800	TR FMG5-T99	1
Q413	405 065 5708	TR FMS1-T99	1
Q414	405 035 1105	TR FMW1	1
Q415	405 015 8704	TR 2SC2812-L6-TA	1
Q416	405 021 2406	TR 2SD1048-X7-TA	1
Q417	405 064 1800	TR FMG5-T99	1
Q418	405 008 7707	TR 2SB815-B7-TA	1
Q419	405 015 8704	TR 2SC2812-L6-TA	1
Q420	405 076 6503	TR IMD2 T109	1
Q421	405 035 1105	TR FMW1	1
Q422	405 034 9508	TR DTC114-YK	1
C101	403 074 9502	CERAMIC 680P K 50V	1
C102	403 074 9502	CERAMIC 680P K 50V	1
C103	404 037 6408	TA-SOLID 22U M 4V	1
C104	403 068 1000	CERAMIC 0.012U K 25V	1
C105	403 068 1208	CERAMIC 0.015U K 25V	1
C106	403 144 7100	TA-SOLID 2.2U M 6.3V	1
C107	403 144 7100	TA-SOLID 2.2U M 6.3V	1
C108	403 073 0005	CERAMIC 3300P K 50V	1
C109	403 075 5305	CERAMIC 8200P K 50V	1
C110	403 067 9304	CERAMIC 0.01U K 25V	1
C111	403 089 4509	TA-SOLID 1U M 4V	1
C112	403 091 8809	TA-SOLID 0.47U M 25V	1
C113	403 089 5308	TA-SOLID 2.2U M 4V	1
C114	403 069 1702	CERAMIC 1000P K 50V	1
C115	403 089 4509	TA-SOLID 1U M 4V	1
C121	403 074 9502	CERAMIC 680P K 50V	1
C122	403 068 0409	CERAMIC 0.1U Z 25V	1
C123	4-2239-71961	Capacitor CD 220M 4V	1
C201	403 074 9502	CERAMIC 680P K 50V	1
C202	403 074 9502	CERAMIC 680P K 50V	1
C203	404 037 6408	TA-SOLID 22U M 4V	1
C204	403 068 1000	CERAMIC 0.012U K 25V	1
C205	403 068 1208	CERAMIC 0.015U K 25V	1
C206	403 144 7100	TA-SOLID 2.2U M 6.3V	1
C207	403 144 7100	TA-SOLID 2.2U M 6.3V	1
C208	403 073 0005	CERAMIC 3300P K 50V	1
C209	403 075 5305	CERAMIC 8200P K 50V	1
C210	403 067 9304	CERAMIC 0.01U K 25V	1
C211	403 089 4509	TA-SOLID 1U M 4V	1
C212	403 091 8809	TA-SOLID 0.47U M 25V	1
C213	403 089 5308	TA-SOLID 2.2U M 4V	1
C214	403 069 1702	CERAMIC 1000P K 50V	1
C215	403 089 4509	TA-SOLID 1U M 4V	1
C221	403 074 9502	CERAMIC 680P K 50V	1
C222	403 068 0409	CERAMIC 0.1U Z 25V	1
C223	4-2239-71961	Capacitor CD 220M 4V	1
C301	403 075 5305	CERAMIC 8200P K 50V	1
C302	404 037 6408	TA-SOLID 22U M 4V	1
C305	404 037 6408	TA-SOLID 22U M 4V	1
C306	404 037 6408	TA-SOLID 22U M 4V	1
C307	403 067 9809	CERAMIC 0.1U K 25V	1
C308	403 089 5308	TA-SOLID 2.2U M 4V	1
C309	403 067 9809	CERAMIC 0.1U K 25V	1
C310	403 144 0705	TA-SOLID 10U M 4V	1
C311	403 144 0705	TA-SOLID 10U M 4V	1
C312	404 037 6408	TA-SOLID 22U M 4V	1
C313	403 089 5605	TA-SOLID 3.3U M 4V	1
C314	403 089 6206	TA-SOLID 4.7U M 4V	1
C315	403 089 5605	TA-SOLID 3.3U M 4V	1
C316	404 037 6408	TA-SOLID 22U M 4V	1
C317	403 009 5708	CERAMIC 100P J 50V	1
C318	403 069 1702	CERAMIC 1000P K 50V	1
C401	403 144 7209	TA-SOLID 1U M 16V	1
C403	403 068 0409	CERAMIC 0.1U Z 25V	1
C404	403 068 0409	CERAMIC 0.1U Z 25V	1

Ref. No.	Part No.	Description	Q'ty
C405	403 144 0705	TA-SOLID 10U M 4V	1
C406	403 067 9304	CERAMIC 0.01U K 25V	1
C407	403 089 4509	TA-SOLID 1U M 4V	1
C409	403 089 5605	TA-SOLID 3.3U M 4V	1
C411	403 089 5605	TA-SOLID 3.3U M 4V	1
C412	404 012 6607	ELECT 22U M 4V	1
C413	403 144 0705	TA-SOLID 10U M 4V	1
C414	403 068 0409	CERAMIC 0.1U Z 25V	1
C415	403 068 2007	CERAMIC 0.022U K 25V	1
C416	403 068 0409	CERAMIC 0.1U Z 25V	1
C417	403 144 0705	TA-SOLID 10U M 4V	1
C418	403 073 0005	CERAMIC 3300P K 50V	1
C419	403 068 0409	CERAMIC 0.1U Z 25V	1
C422	403 144 0705	TA-SOLID 10U M 4V	1
C423	4-2239-71961	Capacitor CD 220M 4V	1
C424	403 144 0705	TA-SOLID 10U M 4V	1
C501	403 089 5605	TA-SOLID 3.3U M 4V	1
C502	403 068 0409	CERAMIC 0.1U Z 25V	1
C503	403 089 5605	TA-SOLID 3.3U M 4V	1
C504	403 068 0409	CERAMIC 0.1U Z 25V	1
C505	403 089 5605	TA-SOLID 3.3U M 4V	1
C506	403 068 0409	CERAMIC 0.1U Z 25V	1
C507	403 089 4509	TA-SOLID 1U M 4V	1
C508	403 067 9304	CERAMIC 0.01U K 25V	1
C509	404 031 0808	CERAMIC 0.47U Z 50V	1
R101	402 018 4801	MT-GLAZE 18K JA 1/10W	1
R102	402 022 8703	MT-GLAZE 180 JA 1/10W	1
R103	402 018 4405	MT-GLAZE 12K JA 1/10W	1
R104	402 018 5808	MT-GLAZE 330K JA 1/10W	1
R105	402 022 9601	MT-GLAZE 2.7K JA 1/10W	1
R106	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R107	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R108	402 018 6201	MT-GLAZE 4.7K JA 1/10W	1
R109	402 018 5709	MT-GLAZE 33K JA 1/10W	1
R110	402 018 5709	MT-GLAZE 33K JA 1/10W	1
R111	402 035 2101	MT-GLAZE 13K JA 1/10W	1
R112	402 023 3202	MT-GLAZE 390K JA 1/10W	1
R113	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R114	402 018 4009	MT-GLAZE 10K JA 1/10W	1
R115	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R116	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R122	402 018 5402	MT-GLAZE 3.9 JA 1/10W	1
R201	402 018 4801	MT-GLAZE 18K JA 1/10W	1
R202	402 022 8703	MT-GLAZE 180 JA 1/10W	1
R203	402 018 4405	MT-GLAZE 12K JA 1/10W	1
R204	402 018 5808	MT-GLAZE 330K JA 1/10W	1
R205	402 022 9601	MT-GLAZE 2.7K JA 1/10W	1
R206	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R207	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R208	402 018 6201	MT-GLAZE 4.7K JA 1/10W	1
R209	402 018 5709	MT-GLAZE 33K JA 1/10W	1
R210	402 018 5709	MT-GLAZE 33K JA 1/10W	1
R211	402 035 2101	MT-GLAZE 13K JA 1/10W	1
R212	402 023 3202	MT-GLAZE 390K JA 1/10W	1
R213	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R214	402 018 4009	MT-GLAZE 10K JA 1/10W	1
R215	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R216	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R222	402 018 5402	MT-GLAZE 3.9 JA 1/10W	1
R301	402 018 4801	MT-GLAZE 18K JA 1/10W	1
R303	402 018 4009	MT-GLAZE 10K JA 1/10W	1
R304	402 022 9601	MT-GLAZE 2.7K JA 1/10W	1
R305	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R311	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R401	402 028 6000	MT-GLAZE 220K JA 1/10W	1
R402	402 018 6201	MT-GLAZE 4.7K JA 1/10W	1

P.C.BOARD PARTS LIST (Continued)

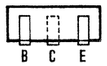
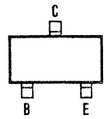
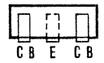
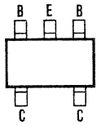
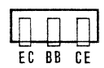
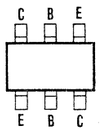
Ref. No.	Part No.	Description	Q'ty
R403	402 035 5508	MT-GLAZE 270 JA 1/10W	1
R404	402 028 6000	MT-GLAZE 220K JA 1/10W	1
R405	402 018 5600	MT-GLAZE 3.3K JA 1/10W	1
R406	402 022 8703	MT-GLAZE 180 JA 1/10W	1
R407	402 018 6607	MT-GLAZE 56K JA 1/10W	1
R408	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R409	402 018 6300	MT-GLAZE 47K JA 1/10W	1
R411	402 022 9205	MT-GLAZE 470 JA 1/10W	1
R412	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R413	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R414	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R415	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R416	402 018 6300	MT-GLAZE 47K JA 1/10W	1
R417	402 018 5501	MT-GLAZE 330 JA 1/10W	1
R418	402 018 6300	MT-GLAZE 47K JA 1/10W	1
R419	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R421	402 018 5808	MT-GLAZE 330K JA 1/10W	1
R422	402 022 5801	MT-GLAZE 1.2K JA 1/10W	1
R423	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R424	402 018 6300	MT-GLAZE 47K JA 1/10W	1
R425	402 018 5105	MT-GLAZE 2.2K JA 1/10W	1
R427	402 018 5808	MT-GLAZE 330K JA 1/10W	1
R428	402 022 5801	MT-GLAZE 1.2K JA 1/10W	1
R429	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R430	402 036 9703	MT-GLAZE 820 JA 1/10W	1
R431	402 036 9703	MT-GLAZE 820 JA 1/10W	1
R432	402 022 9007	MT-GLAZE 150 JA 1/10W	1
R433	402 018 4009	MT-GLAZE 10K JA 1/10W	1
R434	402 018 3705	MT-GLAZE 10 JA 1/10W	1
R435	402 018 6201	MT-GLAZE 4.7K JA 1/10W	1
R436	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R437	402 018 6300	MT-GLAZE 47K JA 1/10W	1
R438	402 018 3903	MT-GLAZE 1K JA 1/10W	1
R439	402 037 1607	MT-GLAZE 5.6 JA 1/8W	1
R440	402 037 1607	MT-GLAZE 5.6 JA 1/8W	1
R441	402 022 9205	MT-GLAZE 470 JA 1/10W	1
R442	402 018 5600	MT-GLAZE 3.3K JA 1/10W	1
R443	402 018 6102	MT-GLAZE 3.9K JA 1/10W	1
R444	402 028 6307	MT-GLAZE 68K JA 1/10W	1
R445	402 018 4108	MT-GLAZE 100K JA 1/10W	1
R446	402 022 5603	MT-GLAZE 470K JA 1/10W	1
R447	402 028 6000	MT-GLAZE 220K JA 1/10W	1
R448	402 033 8303	MT-GLAZE 1 JA 1/8W	1
R449	402 018 5204	MT-GLAZE 22K JA 1/10W	1
R501	402 018 4405	MT-GLAZE 12K JA 1/10W	1
R502	402 018 6508	MT-GLAZE 5.6K JA 1/10W	1
R504	402 018 5501	MT-GLAZE 330 JA 1/10W	1
R505	402 018 5709	MT-GLAZE 33K JA 1/10W	1
R506	402 018 3903	MT-GLAZE 1K JA 1/10W	1

SWITCH F.P.C. ASSY

PCB2	141-0-1939-28030	Switch F.P.C. Assy	1
	4-2262-39160	FPC Switch	1
S402	4-2312-06990	Tact Switch (PLAY/DIRECTION)	1
S403	4-2312-06990	Tact Switch (STOP)	1
S404	4-2312-06990	Tact Switch (F.FWD)	1
S405	4-2312-06990	Tact Switch (REWIND)	1
D408	407 089 1407	LED GL2PR9 (BATTERY)	1

NOTES:

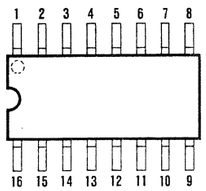
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SB815 2SC2812 2SD1048 DTC114YK		
FMW1 FMS1 FMG4		
IMX1 IMD2		

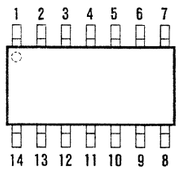
TERMINAL NAME

B — BASE
C — COLLECTOR
E — EMITTER

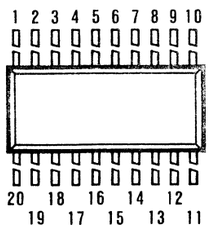
TA7793F/TA7795F BOTTOM VIEW



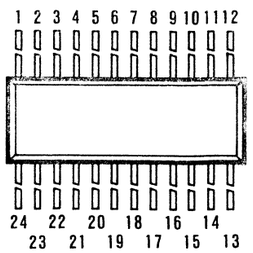
LA3550M/LA4537M BOTTOM VIEW



TC9311F-006 BOTTOM VIEW

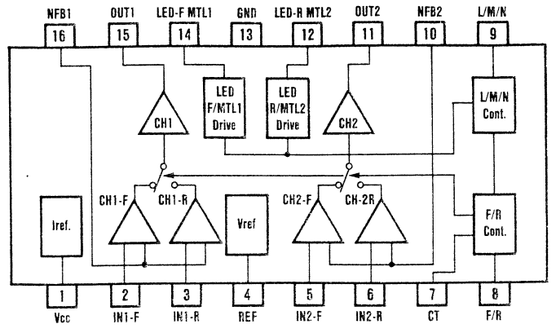


LB16732M BOTTOM VIEW



IC & TRANSISTOR LEAD IDENTIFICATION

TA7795F BLOCK DIAGRAM



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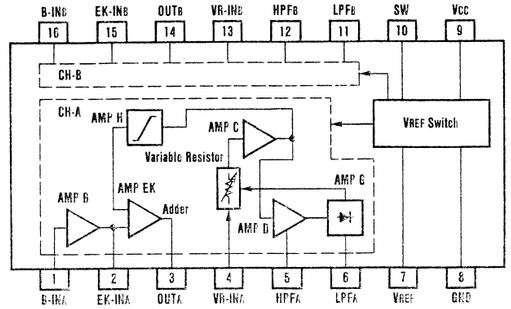

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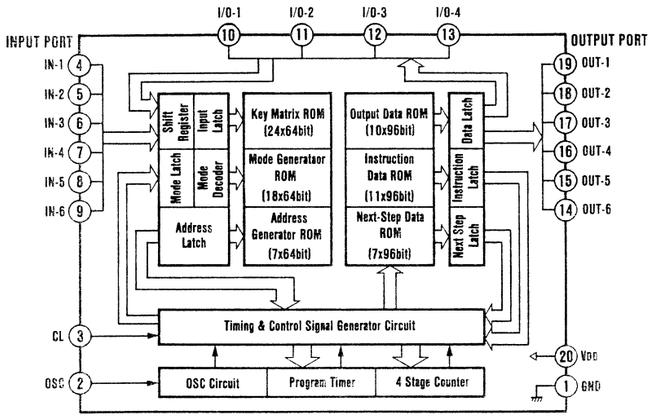
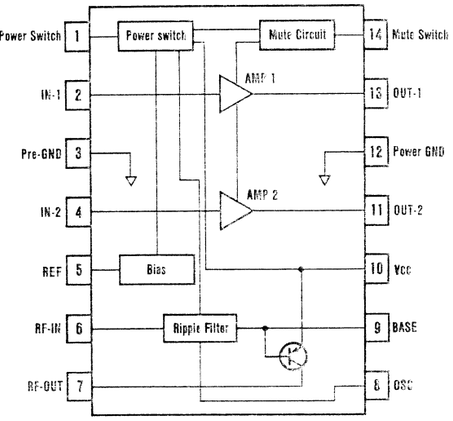


LA4538M BLOCK DIAGRAM



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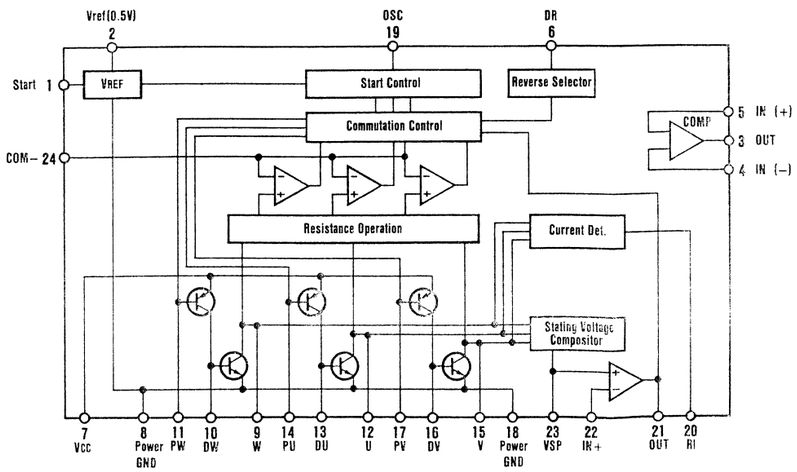

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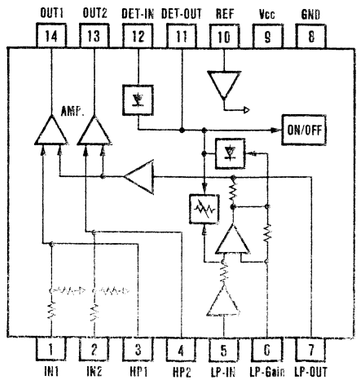
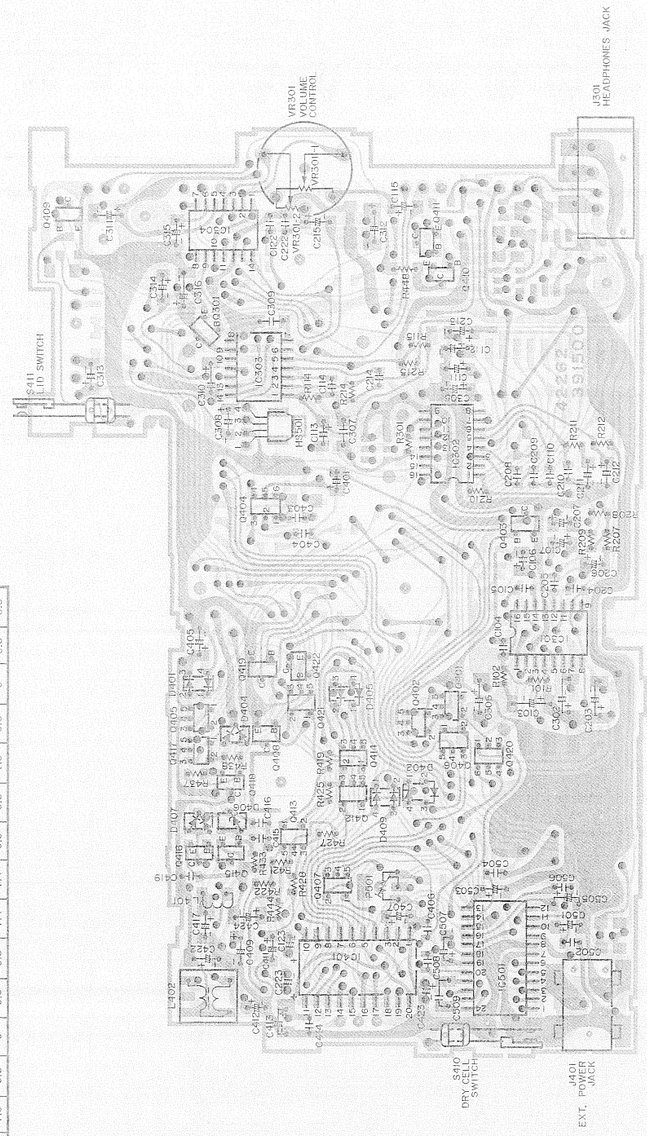


P.C.BOARD DIAGRAM (Top View)

	Q412					Q413					Q414					Q421				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Remo-con OFF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	0	0.6	0	0
Remo-con ON	2.5	2.5	0		0	0	0	1.5	1.5	1.5	0	0	0.6	0	0.6		0.6	0	〃	0.6

	Q403			Q404						Q405				
	B	C	E	1	2	3	4	5	6	1	2	3	4	5
AMSS OFF	2.0	0	0	0.9	0.7	0.1	0.9	0.7	0.1	1.2	0	1.2	0	0
AMSS ON	〃	〃	〃	〃	〃	〃	〃	〃	〃	0	2.5	〃	〃	〃



	Q401						Q402						Q420						Q418			Q419		
	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	B	C	E	B	C	E
Forward	2.5	2.5	0	0	0	0	0	0	1.5	0	1.5	0.6	2.5	2.5	0	0	0	0	0.8	1.5	1.5	0.6	0	〃
Reverse	〃	〃	0.6	〃	〃	〃	〃	〃	0.6	0	〃	〃	〃	〃	〃	2.5	2.5	〃	〃	〃	〃	〃	〃	〃

IC301

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Forward	1.4	1.07	1.07	1.07	1.07	1.07	0.4	0.6	0.5	1.0	0.4	0	0	0	0.4	1.0
Reverse	〃	〃	〃	〃	〃	〃	〃	0	〃	〃	〃	〃	〃	〃	〃	〃

IC302

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dolby OFF	0.8	0.8	0.8	0.8	0.8	0	0.8	0	1.4	0	0	0.8	0.8	0.8	0.8	0.8
Dolby ON	〃	〃	〃	〃	〃	〃	〃	〃	〃	1.4	〃	〃	〃	〃	〃	〃

IC303

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Playback	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0	1.4	0.7	0	0	0.7	0.7

IC304

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Playback	1.5	0.8	0	0.8	0.8	1.4	1.4	0.9	0.8	1.5	0.6	0	0.6	0.8

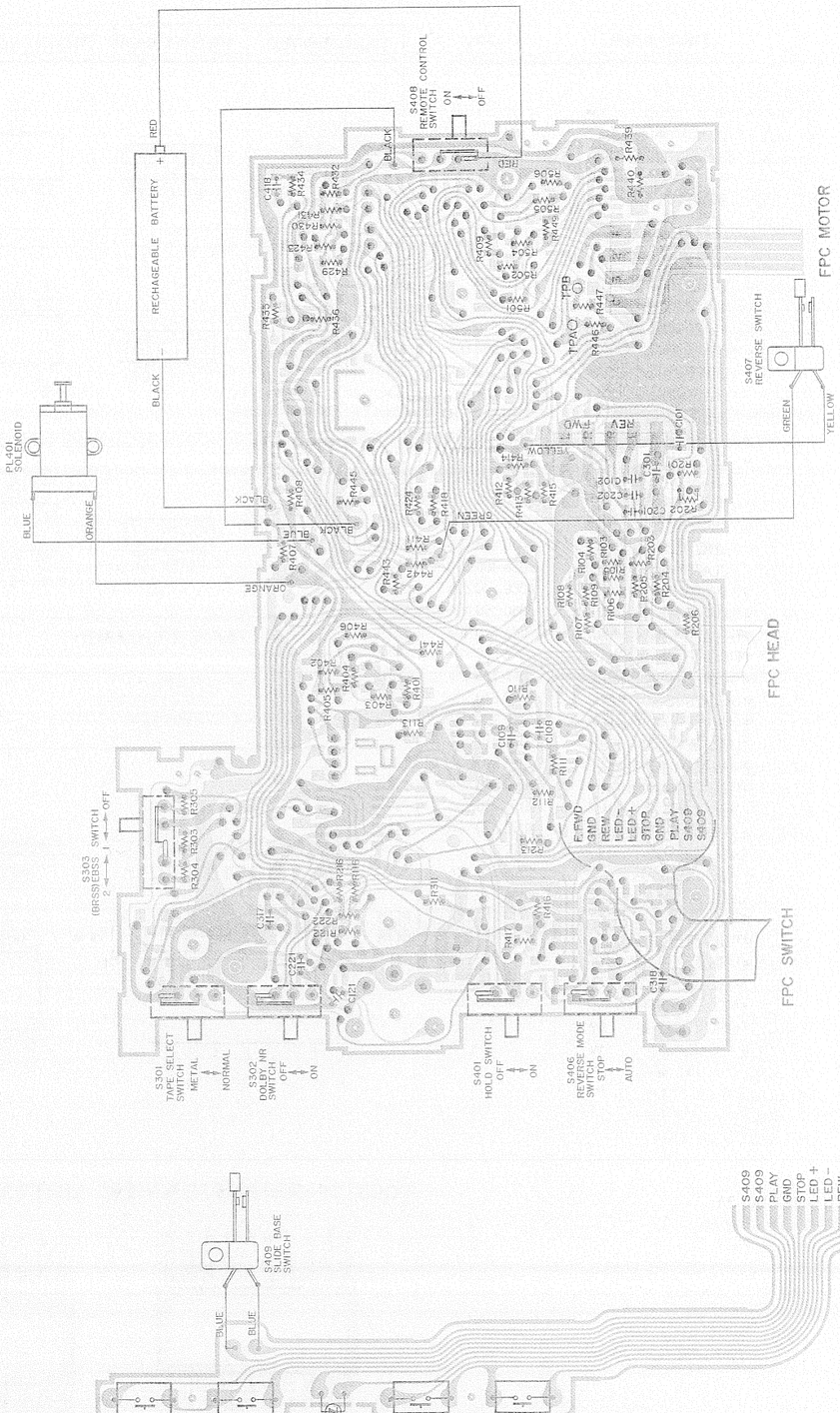
IC401

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Forward	0	–	2.5	2.1	2.5	2.2	2.5	2.5	–	0	0	0	2.0	0	2.5	2.3	2.0	0	0	2.5
Reverse	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃	〃

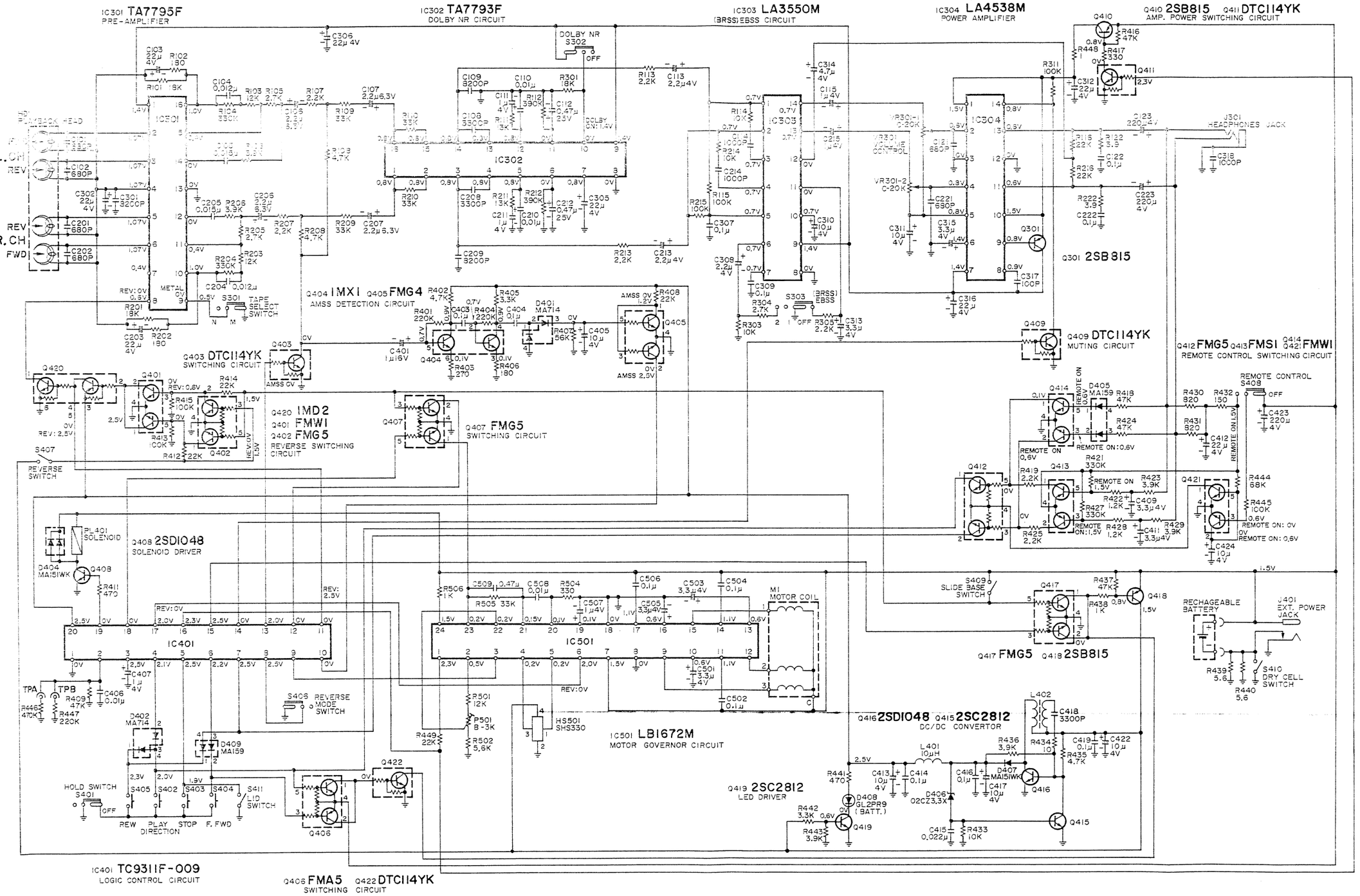
IC501

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Forward	2.3	0.5	–	0.2	0.2	0.2	1.5	0	–	0.6	1.1	–	0.6	1.1	–	0.6	1.1	0	0.1	0.1	0.15	0.2	0.2	1.5
Reverse	〃	〃	–	〃	〃	0	〃	〃	–	〃	〃	–	〃	〃	–	〃	〃	〃	〃	〃	〃	〃	〃	〃

P.C.BOARD & WIRING DIAGRAM



SCHEMATIC DIAGRAM



No.	Name	Position
S301	Tape Select Switch	METAL
S302	Dolby NR Switch	OFF
S303	EBSS/BRSS Switch	OFF
S401	Hold Switch	OFF
S402	Play/Direction Switch	OFF

No.	Name	Position
S403	Stop Switch	OFF
S404	F.FWD Switch	OFF
S405	Rewind Switch	OFF
S406	Reverse Mode Switch	OFF
S407	Reverse Switch	OFF

No.	Name	Position
S408	Remote Control Switch	OFF
S409	Slide Base Switch	OFF
S410	Dry Cell Switch	OFF
S411	Lid Switch	OFF

CORRECTION NOTICE

SANYO

Date:April,14,1989

Please add this notice to the Service Manuals listed below.

STEREO CASSETTE PLAYER

JJ-P100

(GENERAL) **REF:WM-21708** **Issue Number 1**

The following items were misprinted. Please make the necessary revision as indicated in the Service Manual listed above.

No.	Page or Section		Ref. No.	Parts No.	Description	Q'ty	Remarks
1	Parts List Page 4	from		141-6-1479-02502	Individual Carton	1	
		to		141-6-1479-01900	Individual Carton	1	

A47500

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SANYO Electric Co., Ltd.
Osaka, Japan